## AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0010] with the following amended paragraph:

[0010]     The business parameters comprise [[the]] total expenditure; and wherein the total expenditure comprises capital expenditure (CAPEX) and operational expenditure (OPEX). The CAPEX comprises a network architecture cost; taxes; interests; and ~~deprecation~~ depreciation and amortization (D/A) expenses. The OPEX comprises a management processes cost; a leasing cost; and sales, general and administration (SG&A) expenses.

Please replace paragraph [0011] with the following amended paragraph:

[0011]     The business parameters further comprise financial statistics including revenue; capacity; return on investment (ROI); earnings before interest, taxes, and ~~deprecation~~ depreciation and amortization (EBITDA); earnings before interest and taxes (EBIT); OPEX as percentage of revenue; and total expenditure as percentage of revenue.

Please replace paragraph [0021] with the following amended paragraph:

[0021]     The means for engineering service and customer management processes comprises a means for selecting one or more of the following processes: customer relationship management (CRM); work order management (WOM); network inventory management ([[NAI]] NIM); service activation and provisioning (SAP); fault management (FM); performance management (PM); accounting and billing; and security management.

Please replace paragraph [0025] with the following amended paragraph:

[0025]     The program means for causing the computer to receive the data for the plurality of

network architectures comprises means for causing the computer to receive input user data; network architectures data; and management processes data for said network architectures. The input user data comprises traffic data; customer data; and financial and labor ~~labour~~ data for the plurality of network architectures. The network architectures data comprises network elements (NEs) data; CPE data; links and ports data; and further comprises network architectures options for said network architectures. The management processes data comprises network management data; service and customer management data; and further comprises network management options; and service and customer management options for managing each of said network architectures.

Please replace paragraph [0061] with the following amended paragraph:

[0061]     The input user data 110 module enables an analyst to input user data and options for a plurality of network architectures to be modeled. The input user data comprises traffic data; customer data; and financial and ~~labour~~ labor data. The options enable the analyst to select technology alternatives for network architectures and management processes for managing said network architectures.

Please replace paragraph [0067] with the following amended paragraph:

[0067]     The business parameters comprise total expenditure, wherein the total expenditure comprises capital expenditure (CAPEX) and operational expenditure (OPEX). The CAPEX comprises a network architecture cost, taxes, interests, and ~~deprecation~~ depreciation and amortization (D/A) expenses; and the OPEX comprises a management processes cost; a leasing cost; and sales, general and administration (SG&A) expenses.

Please replace paragraph [0068] with the following amended paragraph:

[0068]    The business parameters further comprise financial and business statistics comprising revenue; capacity; return on investment (ROI); earnings before interest, taxes, and ~~deprecation~~ depreciation and amortization (~~EBrIDA~~ EBITDA); earnings before interest and taxes (EBIT); OPEX as percentage of revenue; and total expenditure as percentage of revenue.

Please replace paragraph [0087] with the following amended paragraph:

[0087]    The ARCH1 520 having switching nodes 521 and services nodes 522 from supplier A 501; add/drop nodes [[524]] 523 and cross-connect nodes 524 from supplier B 502; and other nodes 525 from supplier C 503. The ARCH2 530 having switching nodes 531 and services nodes 532 from supplier A 504; add/drop nodes [[534]] 533 and cross-connect nodes 534 from supplier B 505; and other nodes 535 from supplier C 506. The ARCH3 540 having switching nodes 541 and services nodes 542 from supplier A 507; add/drop nodes [[544]] 543 and cross-connect nodes 544 from supplier B 508; and other nodes 545 from supplier C 509.

Please replace paragraph [0094] with the following amended paragraph:

[0094]    A total footprints cost 675 is determined by multiplying the sum of the owned CPE count 650 and the leased CPE count 663 by the footprint per CPE cost 670. A total owned CPE cost 660 is determined by multiplying the owned CPE count 650 by the price per CPE 655. A total leased CPE cost 680 is determined by multiplying the leased CPE count 663 by the leased per CPE cost 665. A total power consumptions cost 690 is determined by multiplying the sum of the owned CPE count 650 and the leased CPE count 663 by the power consumption per CPE cost 685.

Please replace paragraph [0097] with the following amended paragraph:

[0097]    The ARCH1 720 having T1 721 and T3 722 links from supplier A 701; E1 723 and E3 724 links from supplier B 702; and DSL links 725, 10/100 BT 726, and 100/1000 BT 727 links from supplier C 703. The ARCH2 730 having fiber 100FX 731 from supplier A 704; OC3 732, OC12 733, OC48 734, and OC 192 links 735 from supplier B 705; and DWDM ring 736, RPR ring 737, and 1000SX/1000LX 738 from supplier C 706. The ARCH3 740 having SONET ring 741 and microwave 742 links from supplier A 707; fiber 100 FX 743 and 100/1000 BT 744 links from supplier B 708; and DSL 745 and T3 746 links from supplier C 709.

Please replace paragraph [0151] with the following amended paragraph:

[0151]    Procedure 1700 adjusts and updates data (block 1780) as required and re-analyzes the business parameters (block 1740). When analysis is completed for the pre-determined study period, procedure 1700 reports the business parameters for said network architectures over the pre-determined study period. The reporting of said business parameters comprises tabulating and graphically charting the business parameters (block 1790) for each of the network architectures over said pre-determined study period, thus, finishing the procedure 1700 (block 1795).

Please replace paragraph [0168] with the following amended paragraph:

[0168]    Figure 21 shows an illustrative graphical output from an execution of the OMCS tool of Figure 1. The graph 2100 plots dollars per Mbps [[2010]] 2110 over five years study period 2120, year0, year1, year2, year3, and year4 for five network architectures ARCH1 2130, ARCH2 2135, ARCH3 2140, ARCH4 2145, and ARCH5 2150. The five architectures represent the five different technologies described in Figure 18 above. In graph 2100 it can be seen that the return on investment for ARCH5 2050 is higher than the other architectures.